

## A. VITAE

### **William H. Emmingham**

Department of Forest Science  
Oregon State University  
Forestry Sciences Laboratory 020  
Corvallis, OR 97331-7501

#### PRESENT POSITION

Emeritus Professor of Silviculture, Department of Forest Science, College of Forestry, Oregon State University, July 1, 2001 - Present

#### UNIVERSITY APPOINTMENT

Professor of Silviculture, Department of Forest Science, College of Forestry, Oregon State University: Extension Silviculture Specialist and Adaptive COPE. July 1980 – July 2001.

#### EDUCATIONAL BACKGROUND

B.S., University of Idaho, Forest Management 1961  
M.S., Oregon State University, Forest Ecology 1972  
Ph.D., Oregon State University, Forest Ecology 1974

#### FIELDS OF SPECIALIZATION

Silviculture of Pacific Northwest Forests, Agroforestry, Forest Ecology, Classification of Forest Communities, Physiological Ecology.

#### PROFESSIONAL EXPERIENCE

1960-1961	Range Conservationist, Soil Conservation Service, Moscow, Idaho
1961-1962	Fulbright Scholar, University of Helsinki, Helsinki, Finland
1962-1968	Air Intelligence Officer, U.S. Air Force
1968-1972	Research and Teaching Assistant, Oregon State University
1972-1973	Forester, Illinois Valley Ranger District, Siskiyou National Forest, Grants Pass, OR
1973-1977	Environmental Grid Coordinator, Research Associate, Oregon State University
1977-1980	Area Ecologist, Willamette National Forest, U.S. Forest Service
1980-2001	Extension Silviculture Specialist, Department of Forest Science, Oregon State University. Assistant Professor to 1984, Associate Professor to 1994, Professor to present.
1984	6-week Study Tour European Silviculture: France, Germany, Finland; IUFRO meeting

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| 1986-1987 | One Year - Fulbright Visiting Professor, University of Freiburg, Freiburg in Brisgau, Germany  |
| 1998      | 7- week Study Tour of Forestry in New Zealand:   |
| 1997-2001 | Research Scientist, Adaptive COPE Program, OSU, and Extension Silviculture Specialist, Department of Forest Science, OSU.            |
| 2001      | 3-week Study tour of Uneven-age Management in Switzerland, Germany, France and Slovenia Including IUFRO Symposium on Uneven-age Mgt. |

## RECENT EXPERIENCE

*Research:* Leader of Silviculture Program for Adaptive COPE (Coastal Oregon Productivity Enhancement).

Important studies include: 1. Release and Underplanting of Conifers in Hardwood Dominated Riparian Areas, with Agency and Industry Cooperators, 2. Commercial Thinning for Diversity in Young Douglas-fir Forests, with Siuslaw NF, 3. Influence of Thinning Intensity on Wildlife Habitat and Populations, with ODF Tillamook State Forest, 4. Fertilization of Precommercially Thinned and Pruned Douglas-fir Stands, with Menasha, 5. Developing Cost Effective Filterbelts for Coastal Coho Streams, with Extension and Soil Conservation Service, 6. Thinning Alder and Underplanting Western Hemlock, with Extension and Small Woodland Owner, 7. Comparing High and Low Thinning of Douglas-fir, with Extension and Small Woodland Owner.

*Extension:* Extension Silviculture Specialist for Oregon State.

Important recent programs include: Organized and led Extension Efforts

- Ecosystem Science Based Management for Small Private Owners,
- Master Woodland Manager Training,

Continuing Education;

- Ecosystem Management for BLM Managers,
- Riparian Area Silviculture, COPE Workshop
- Long Rotation and Uneven-aged Management Field Tour,
- Thinning Westside Forests Symposium and Field Tour,
- Interdisciplinary Workshop for Uneven-aged Management, IUFRO (Sept. 1997).
- Silviculture Options for Sustainable Management of Pacific Northwest Forests Symposium, OSU, March 2002.
- Silviculture for Forest Structure, Sisters, Oregon. June 2002.

*Teaching:* Graduate level courses:

Spring 1996: Practical Applications of Uneven-age Management.

Spring, 1997: Mixed Species and Mixed Age Management of Coast Range Forests.

*Sabbatical Study: Adapting European Silviculture Systems for Pacific Northwest Conditions as Visiting Fulbright Professor, Freiburg University, West Germany; 1987.*

## **B. A SAMPLE OF RELEVANT PUBLICATIONS (total 50+)**

Badege Bishaw, William Emmingham, and William Rogers. 2002. Riparian Forest Buffers on Agricultural Lands in the Oregon Coast Range: Beaver Creek Riparian Project as a Case Study. Research Contribution 38, Forest Research Laboratory, Oregon State University, Corvallis. 28p.

Miller, M. and B. Emmingham. 2001. Can Selection Thinning Convert Even-age Douglas-fir Stands to Uneven-age Structures? *W. J. Applied Forestry*. 16 (1): 35-43.

Emmingham, Bill, Sam Chan, Dan Mikowski, Pete Owston, Badege Bishaw. 2000. Silviculture Practices for Riparian Forests in the Oregon Coast Range. Research Contribution 24, Forest Research Laboratory, Oregon State University, Corvallis. 34p.

Fitzgerald, S. F., W. H. Emmingham and P.T. Oester. 2000. Exploring methods for maintaining old-growth structure in forests with a frequent-fire history: a case study. Pages 199-206 in W. Keith Moser and Cynthia F. Moser (eds). *Fire and forest ecology: innovative silviculture and vegetation management*. Tall Timbers Fire Ecology Conference Proceedings, No 21. Tall Timbers Research Station, Tallahassee, FL.

Emmingham, W.H., 1998. Uneven-Aged Management in the Pacific Northwest. *Journal of Forestry* 96 (7):37-39.

Hayes, J.P., S.S. Chan, W. H. Emmingham, J.C. Tappeiner, L.D. Kellogg, and J.D. Bailey. 1997. Wildlife Response to Thinning Young Forest in the Pacific Northwest. *Journal of Forestry*. Vol 95 (8):28-33

Hagar, J.C.D., W.C. McComb, and W.H. Emmingham. 1996. Bird communities in commercially thinned and unthinned Douglas-fir stands of western Oregon. *Wildlife Society Bulletin* 24(2):353-366.

Hayes, J.P., M.D. Adam, D. Bateman, E. Dent, W.H. Emmingham, K.G. Maas, and A.E. Skaugset. 1996. Integrating research and forest management in riparian areas of the Oregon Coast Range. *WJAF* 11(3):85-89.

Emmingham, W. and S. Fitzgerald. 1995. Pruning to enhance tree and stand value. *Stand Management, The Woodland Workbook*. Oregon State University Extension Service, EC 1457.

- Entry, J.A. and W.H. Emmingham. 1995. The influence of dairy manure on atrazine and 2,4-dichlorophenoxyacetic acid mineralization in pasture soils. *Can. J. Soil Sci.* 75:379-383.
- Hibbs, D.E. and W.H. Emmingham. 1995. Responses of red alder to thinning. *WJAF* 10:(1)17-23.
- Oester, P. T., W. Emmingham, P. Larson, and S. Clements. 1995. Performance of ponderosa pine seedlings under four herbicide regimes in northeast Oregon. *New Forests* 10:123-131.
- McComb, W., T. Spies, and W. Emmingham. 1993. Douglas-fir forests: managing for timber and wildlife habitats. *Jour. Forestry* 91:(12)31-42.
- Emmingham, W.H., R. Holthausen, and M. Vomocil. 1992. Silviculture Systems and Stand Management. Chapter 6, p. 123-142. In: *Silviculture Approaches to Animal Damage Management in Pacific Northwest Forests*. Hugh C. Black (ed.). USDA Forest Service, Pac. N.W. Research Station. Gen. Tech. Rept. PNW-GTR-287. 422 p.
- Coates, K.D., W.H. Emmingham, S.R. Radosevich. 1991. Conifer-seedling success and microclimate at different levels of herb and shrub cover in a *Rhododendron-Vaccinium-Menziesia* community of south central British Columbia. *Can. J. For. Res.* 21:858-866.
- Emmingham, W.H., M. Bondi, and D.E. Hibbs. 1989. Underplanting western hemlock in a red alder thinning: early survival, growth, and damage. *New Forests*. 3:31-43.
- Emmingham, W.H., R. Fletcher, and S. Woodard. 1989. Measuring Stand Volume and Growth. Extension Circular 1182 & Woodland Workbook.
- Emmingham, W.H. and N.M. Halverson. 1983. Community types, productivity, and reforestation: Management implications for the Pacific silver fir zone of the Cascade Mountains. pp. 291-304. In: C.D. Oliver and R.M. Kenady (eds.). *Proceedings of the Biology and Management of True Fir in the Pacific Northwest Symposium*. USDA Forest Service, Pacific Northwest Forest and Range Exp. Sta., Portland, OR.
- Emmingham, W.H. 1982. Ecological indexes as a means of evaluating, climate, species distribution and primary production. pp. 45-67. In: *Analysis of Coniferous Forest Ecosystems in the Western United States*. US/IBP Synthesis Series vol. 14. Hutchinson and Ross Publishing Co., Stroudsburg, PA.

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